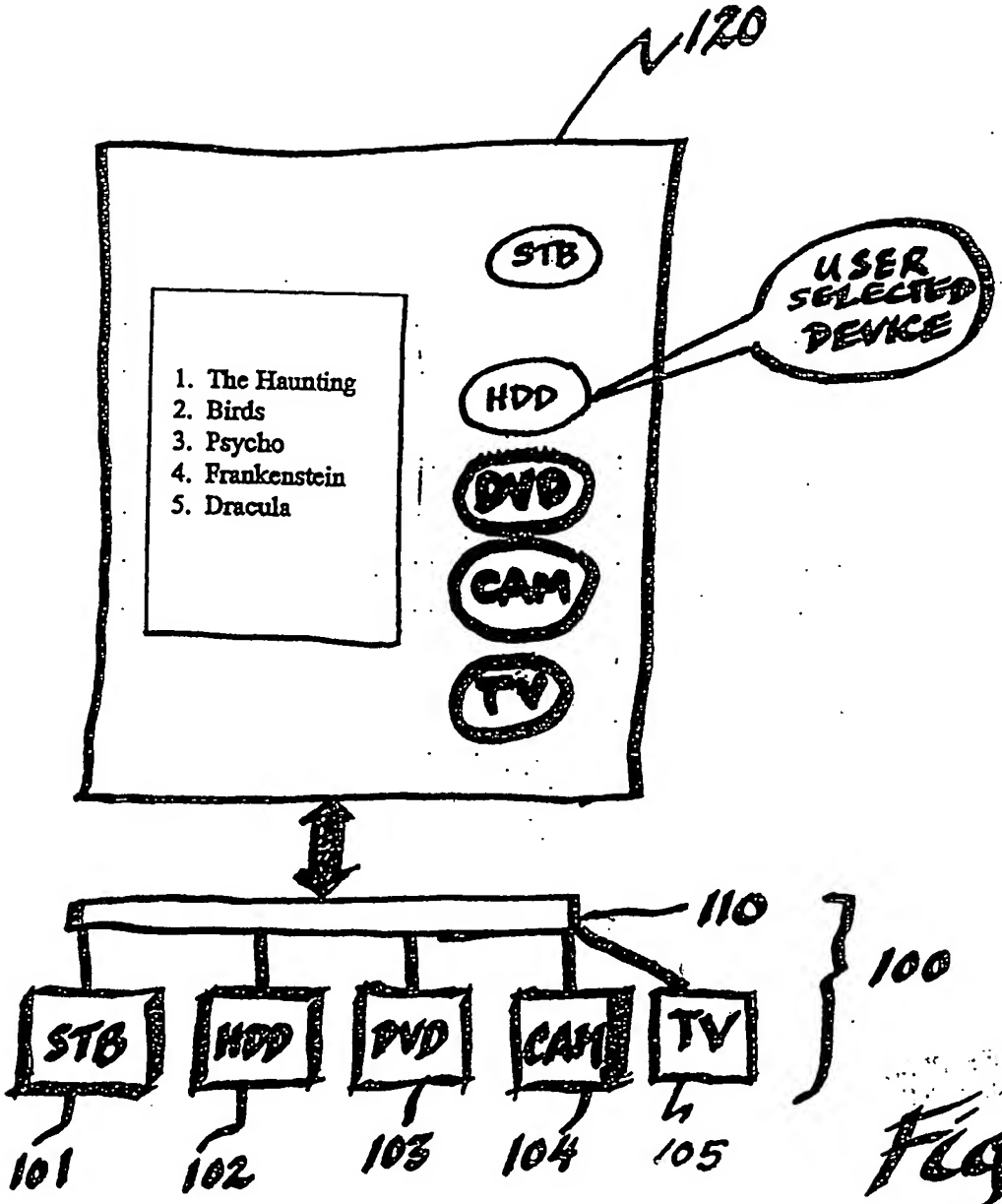

120
STB
USER SELECTED DEVICE
1. The Haunting
2. Birds
3. Psycho
4. Frankenstein
5. Dracula
HDD
DVD
CAM
TV
110
100
STB
HDD
DVD
CAM
TV
101
102
103
104
105

Fig. 1

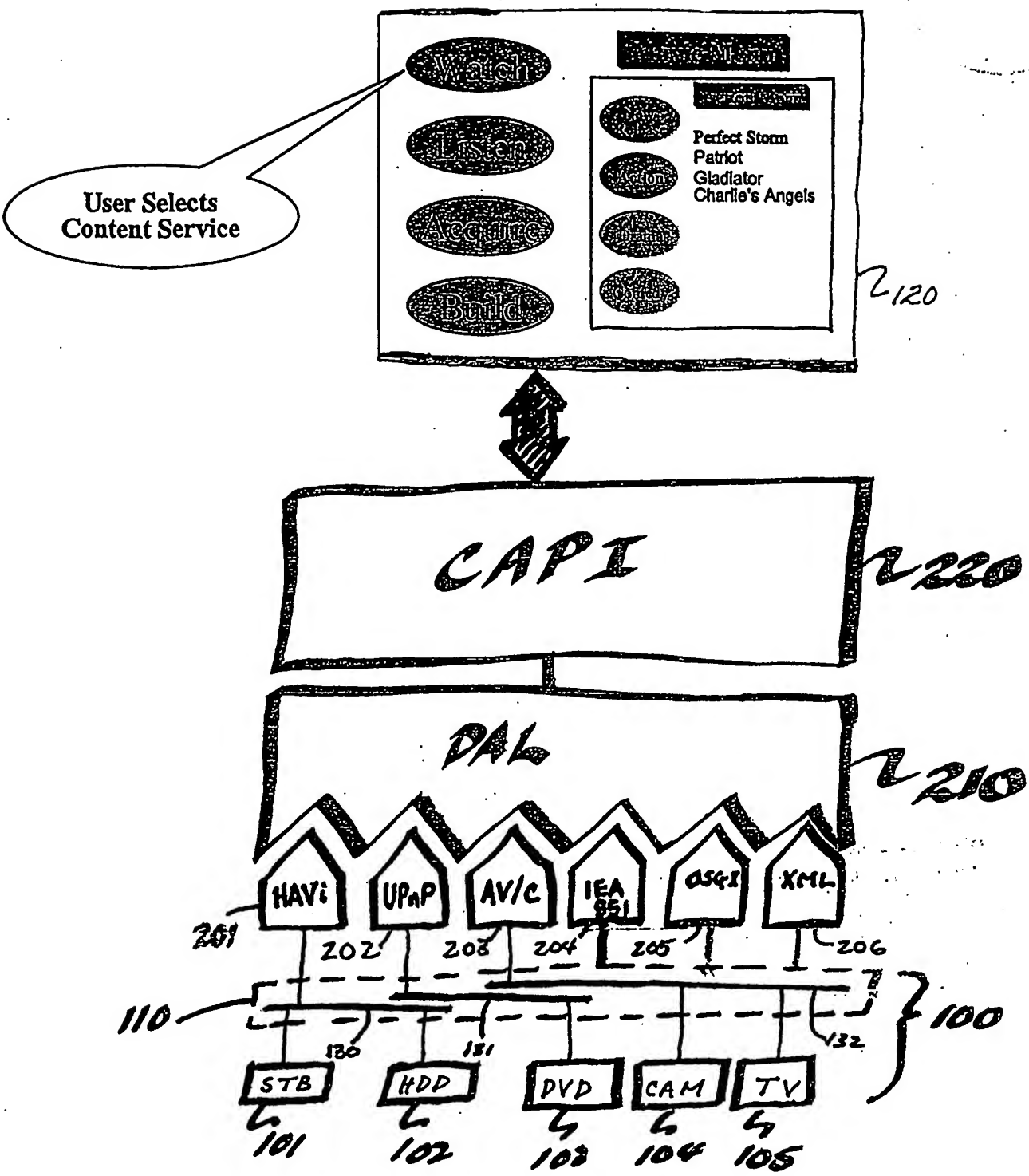

User Selects Content Service
Watch
Listen
Acquire
Build
Perfect Storm
Patriot
Gladiator
Charlie's Angels
120
CAPI
220
DAL
210
HAVi
UPnP
AV/C
IEA 951
OSGI
XML
201
202
203
204
205
206
110
100
130
131
132
STB
HDD
DVD
CAM
TV
101
102
103
104
105

Fig. 2

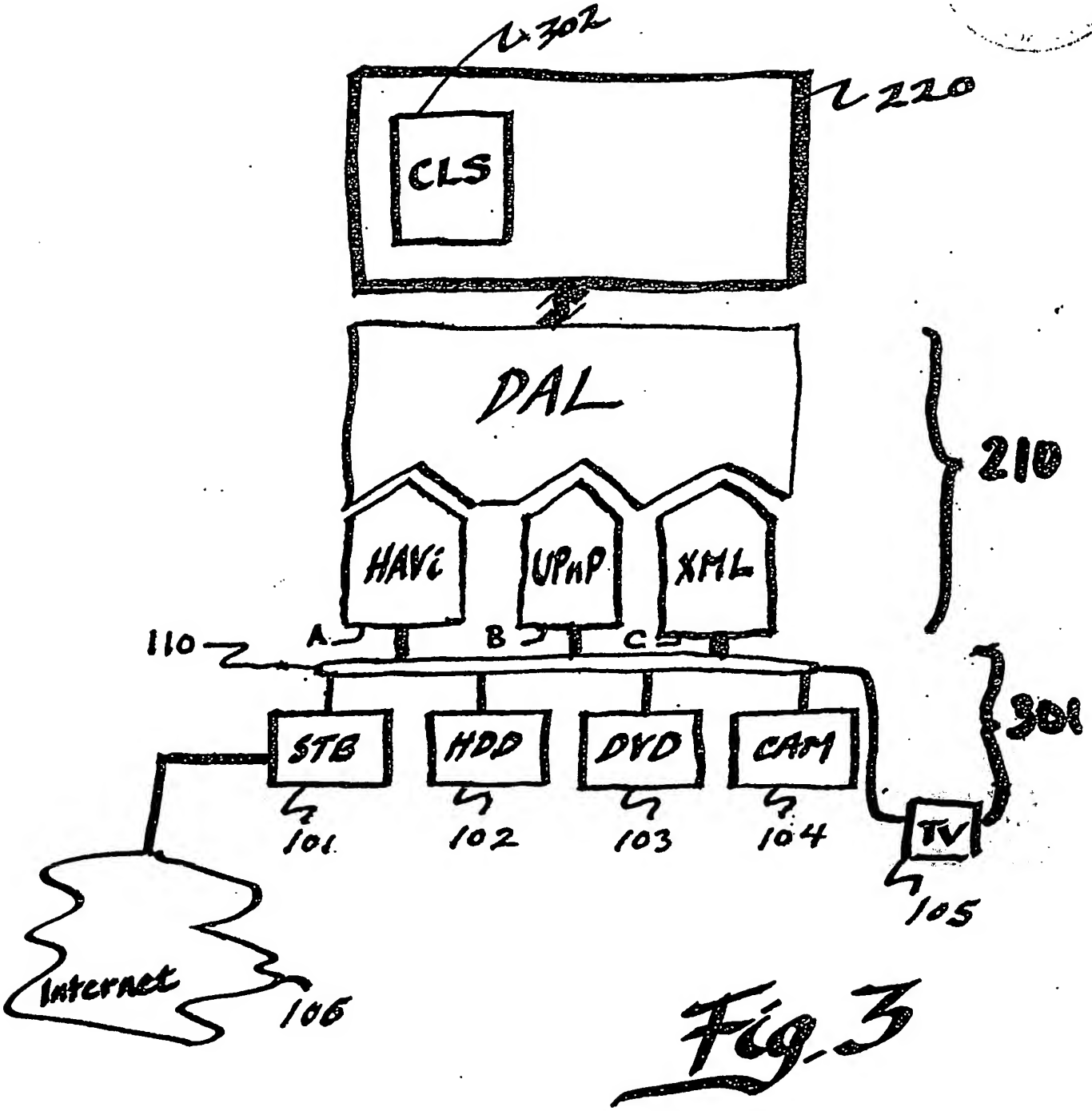

302
220
CLS
DAL
210
HAVi
UPnP
XML
110
A
B
C
301
STB
HDD
DVD
CAM
101
102
103
104
TV
105
Internet
106

Fig. 3

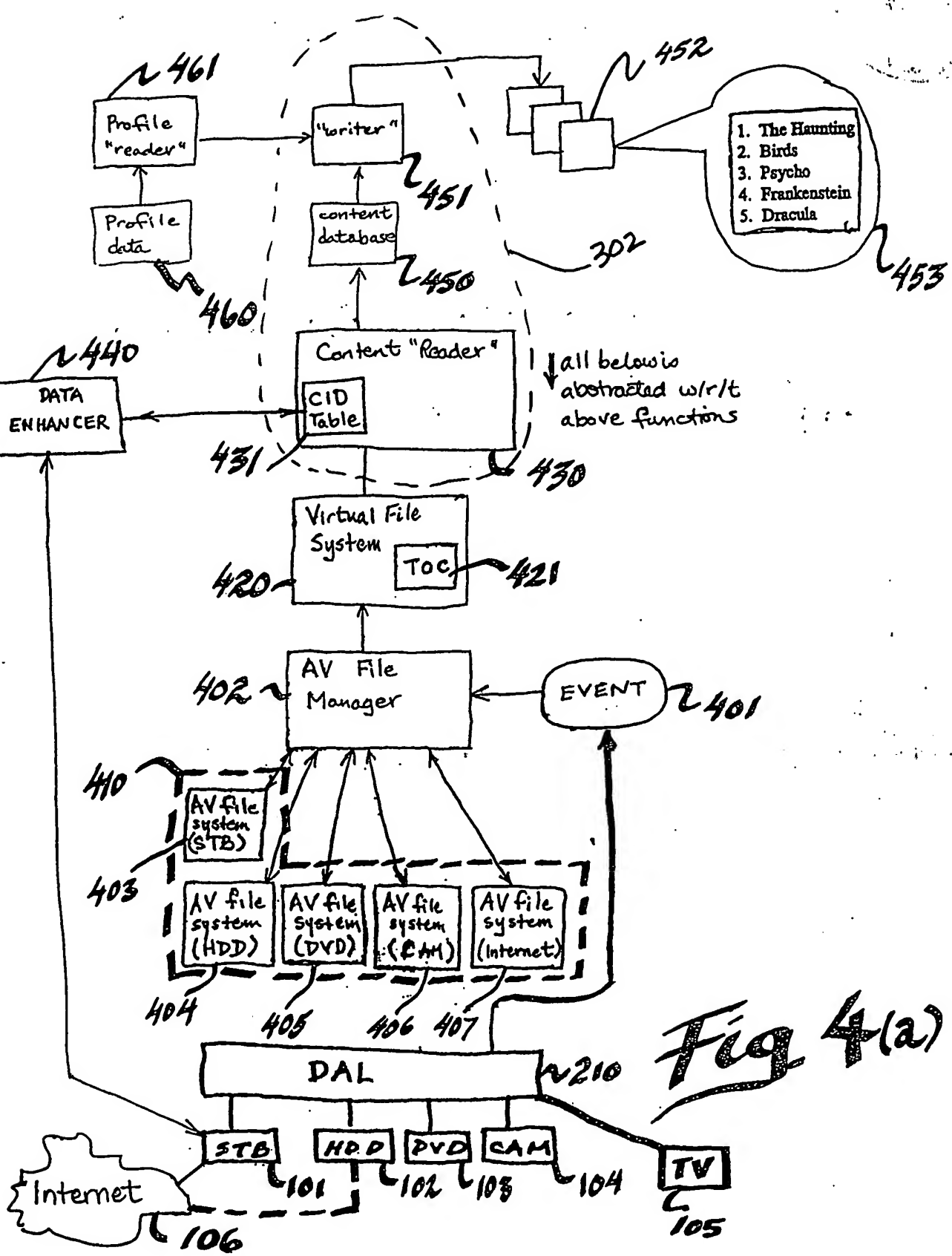

461
Profile "reader"
"writer"
451
452
1. The Haunting
2. Birds
3. Psycho
4. Frankenstein
5. Dracula
453
Profile data
460
content database
450
302
Content "Reader"
all below is abstracted w/r/t above functions
440
DATA ENHANCER
CID Table
431
430
Virtual File System
TOC
420
421
AV File Manager
402
EVENT
401
410
AV file system (STB)
403
AV file system (HDD)
AV file system (DVD)
AV file system (CAM)
AV file system (Internet)
404
405
406
407
DAL
210
STB
HDD
DVD
CAM
TV
101
102
103
104
105
Internet
106

Fig 4(a)

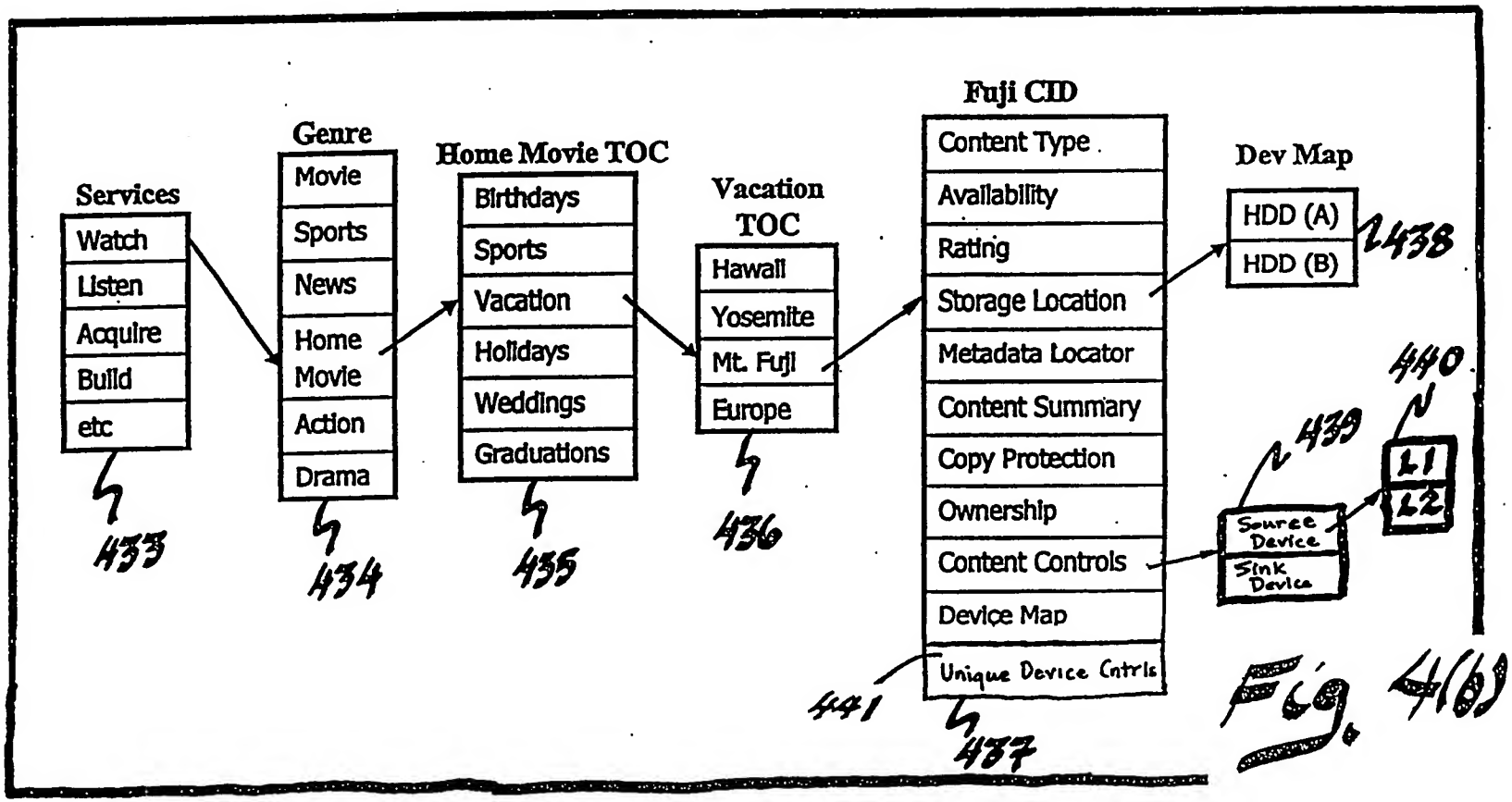

Services
Watch
Listen
Acquire
Build
etc
433
Genre
Movie
Sports
News
Home Movie
Action
Drama
434
Home Movie TOC
Birthdays
Sports
Vacation
Holidays
Weddings
Graduations
435
Vacation TOC
Hawaii
Yosemite
Mt. Fuji
Europe
436
Fuji CID
Content Type
Availability
Rating
Storage Location
Metadata Locator
Content Summary
Copy Protection
Ownership
Content Controls
Device Map
Unique Device Cntrls
437
441
Dev Map
HDD (A)
HDD (B)
438
439
Source Device
Sink Device
440
L1
L2

Fig. 4(b)

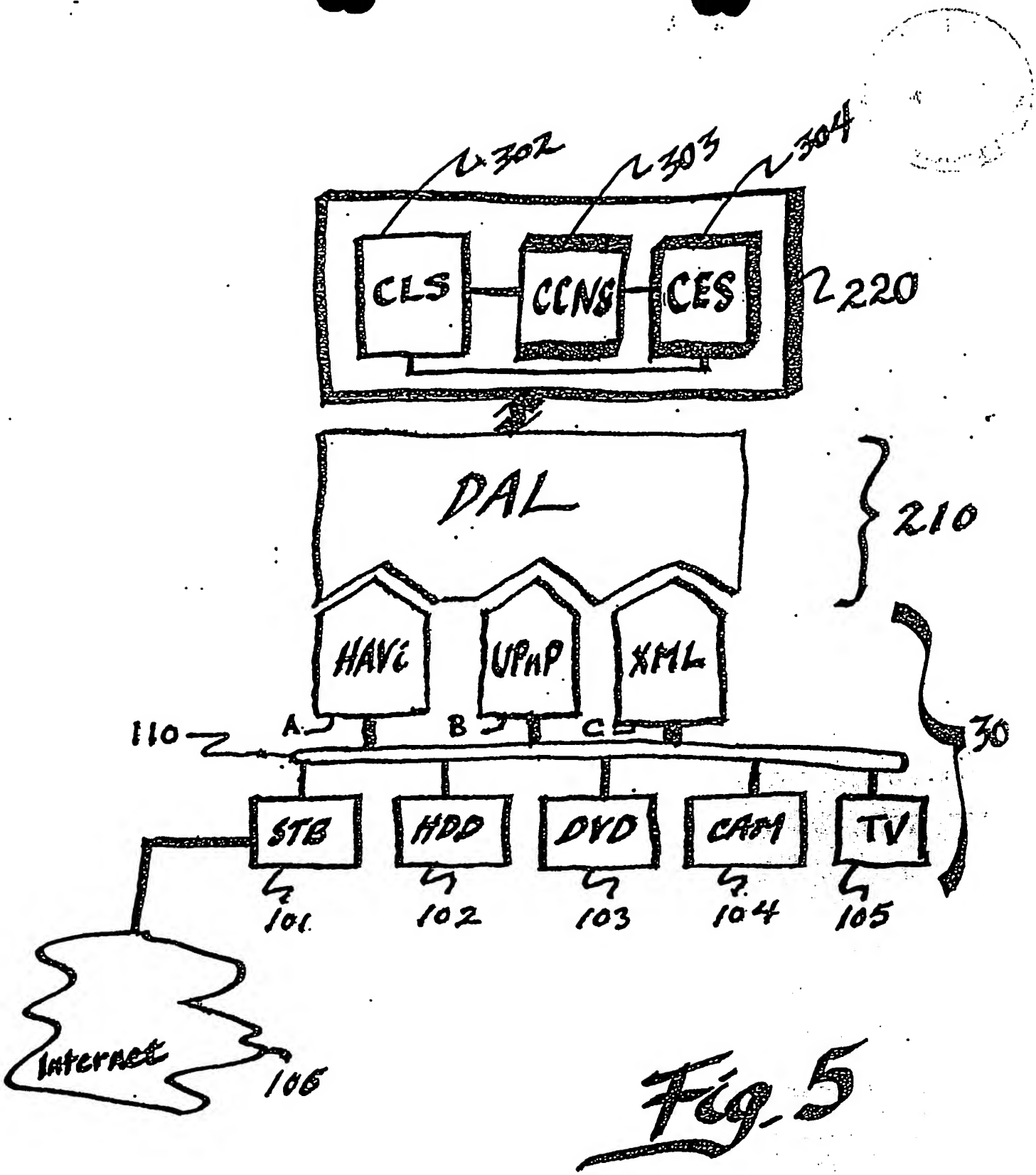
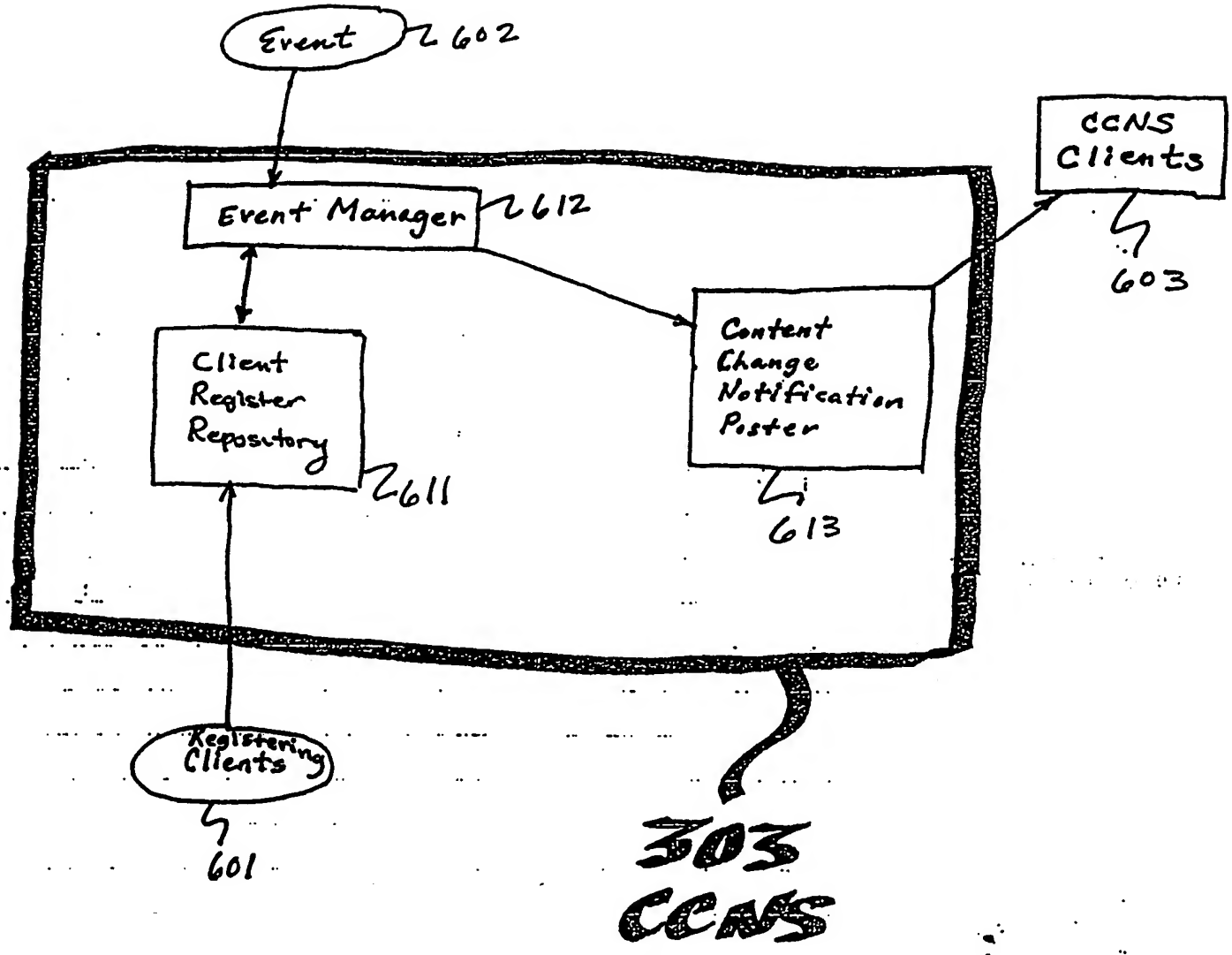

302
303
304
CLS
CCNS
CES
220
DAL
210
HAVi
UPnP
XML
110
A
B
C
30
STB
HDD
DVD
CAM
TV
101
102
103
104
105
Internet
106

Fig. 5

Fig. 6


Event
602
CCNS Clients
603
Event Manager
612
Client Register Repository
611
Content Change Notification Poster
613
Registering Clients
601
303
CCNS

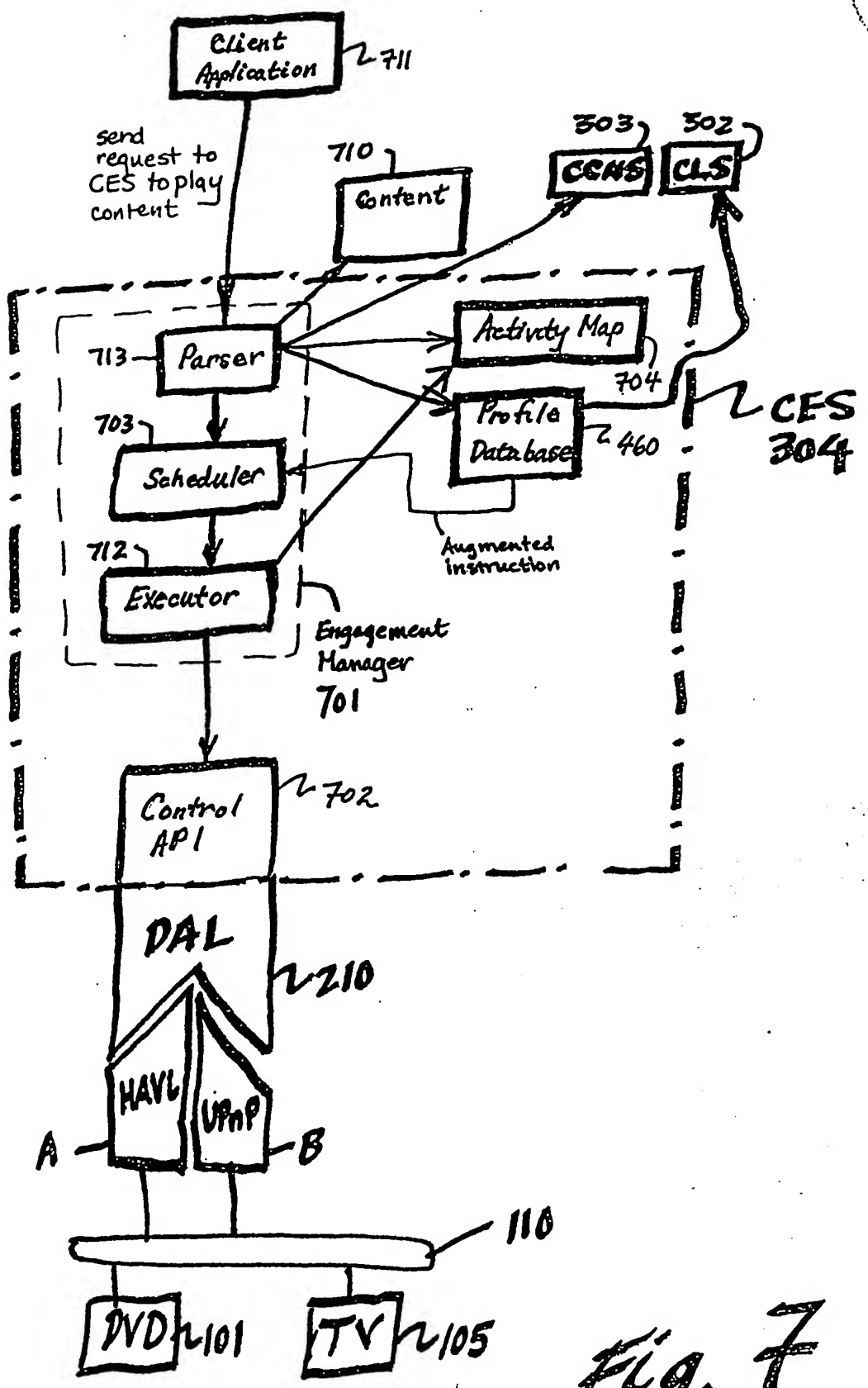
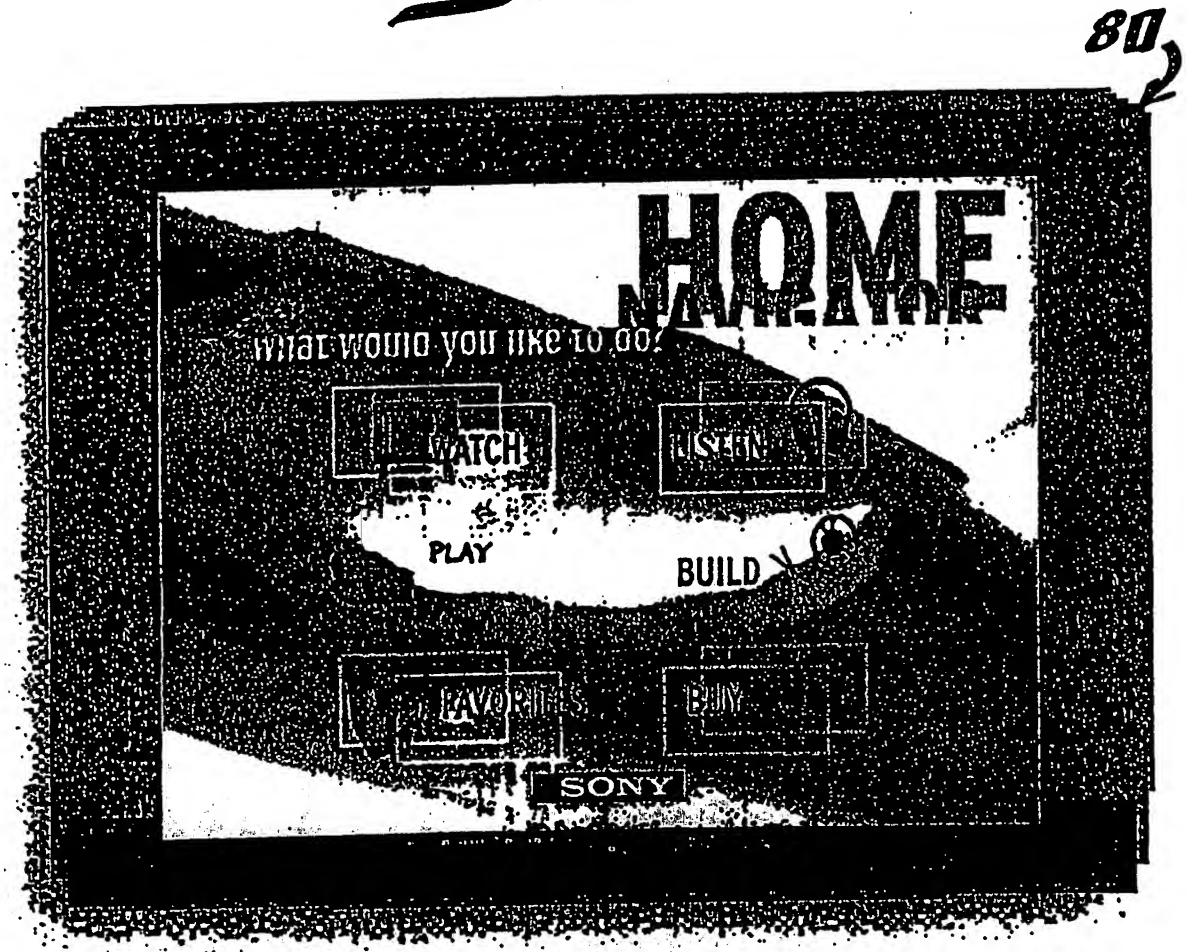

Client Application
711
send request to CES to play content
710
Content
303
CCNS
302
CLS
713
Parser
Activity Map
704
Profile Database
460
CES 304
703
Scheduler
Augmented instruction
712
Executor
Engagement Manager 701
Control API
702
DAL
210
HAVi
UPnP
A
B
110
DVD
101
TV
105

Fig. 7

Fig. 8A


80
HOME
What would you like to do?
WATCH
LISTEN
PLAY
BUILD
FAVORITES
BUY
SONY

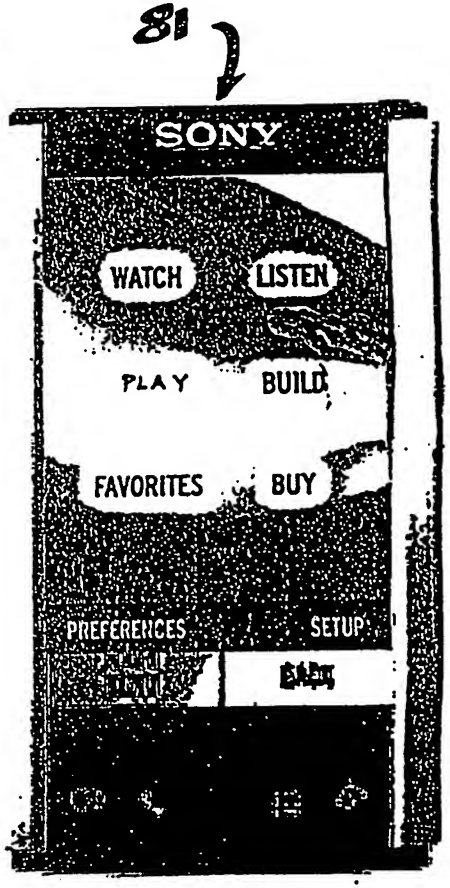
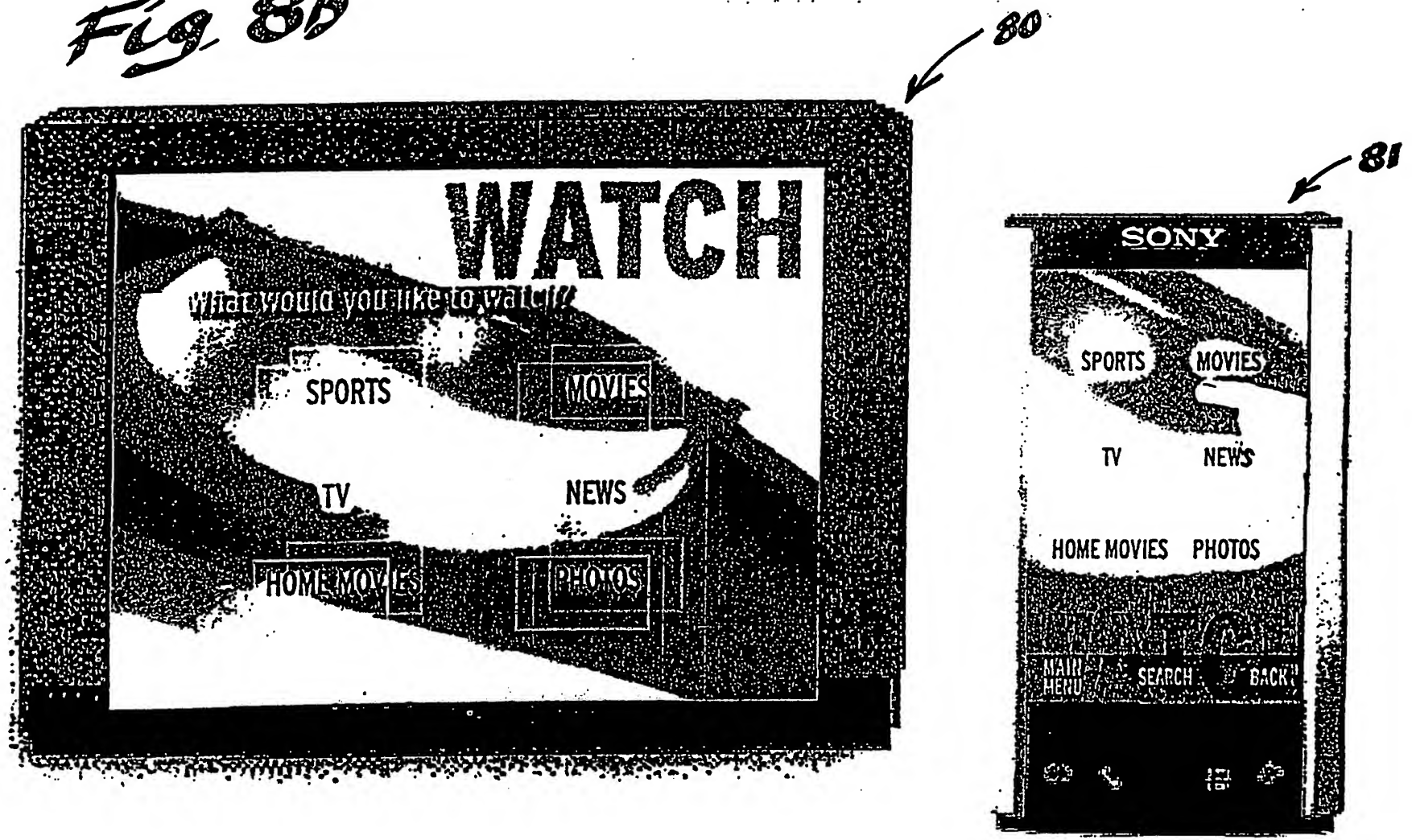
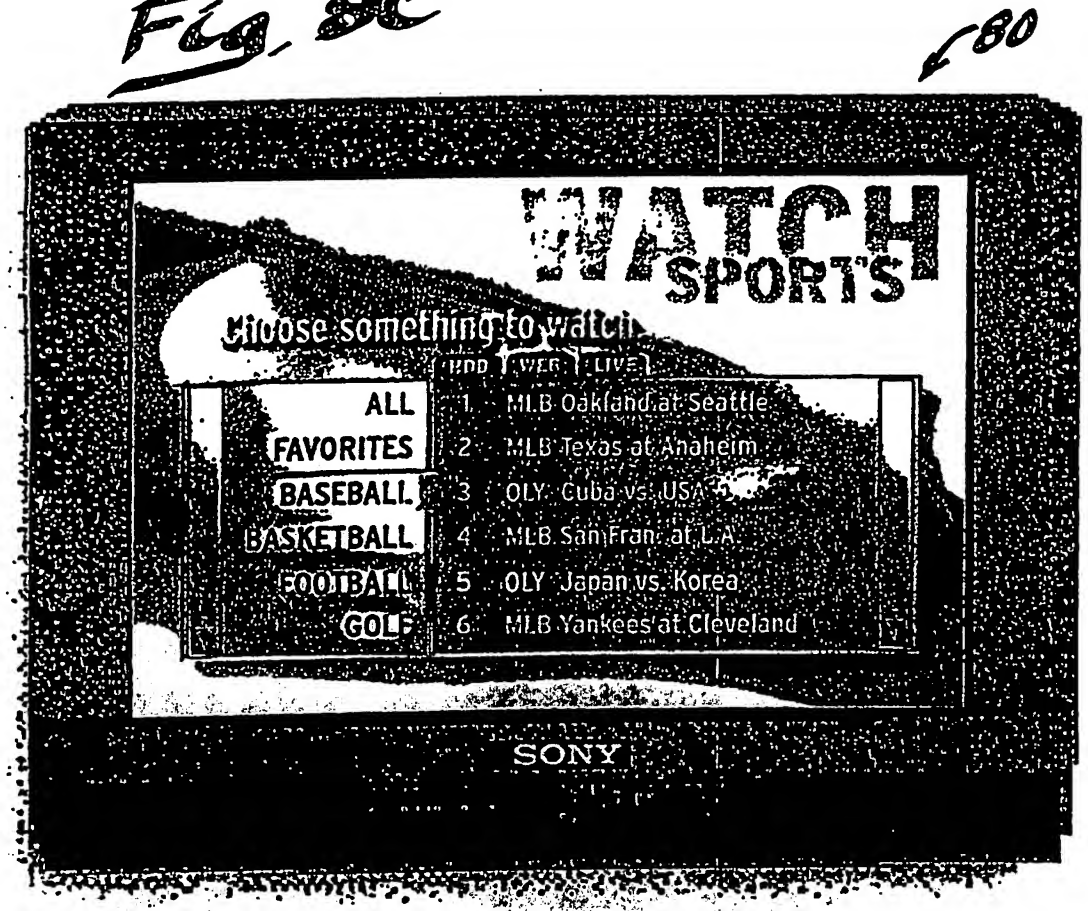

81
SONY
WATCH
LISTEN
PLAY
BUILD
FAVORITES
BUY
PREFERENCES
SETUP

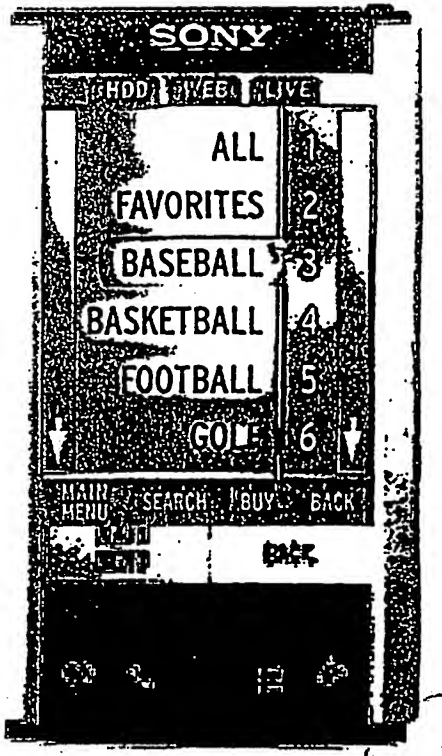
Fig. 8B


80
WATCH
What would you like to watch?
SPORTS
MOVIES
TV
NEWS
HOME MOVIES
PHOTOS
81
SONY
SPORTS
MOVIES
TV
NEWS
HOME MOVIES
PHOTOS
MAIN MENU
SEARCH
BACK

Home Navigator App – Example

Fig. 8C





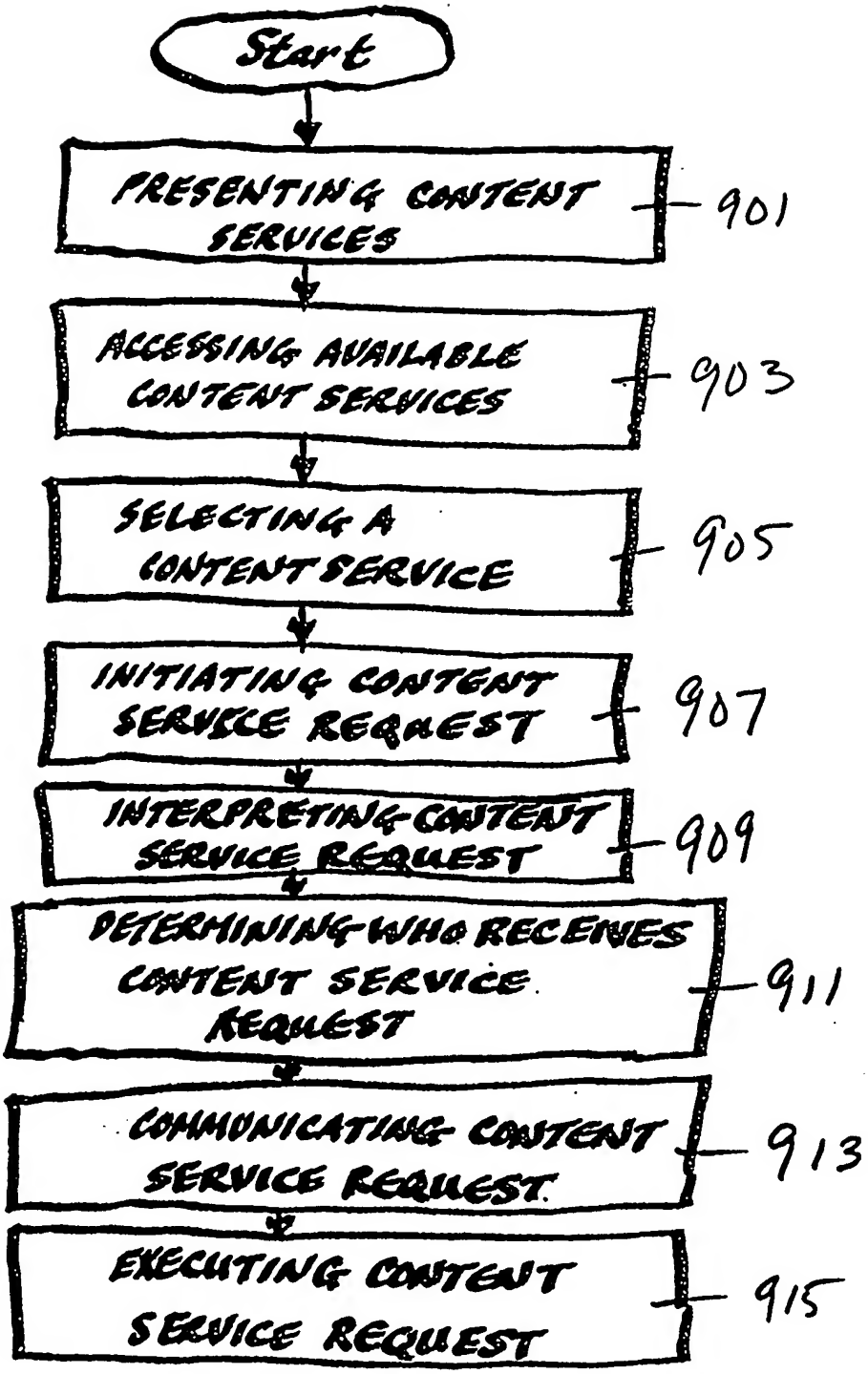

Start
PRESENTING CONTENT SERVICES
901
ACCESSING AVAILABLE CONTENT SERVICES
903
SELECTING A CONTENT SERVICE
905
INITIATING CONTENT SERVICE REQUEST
907
INTERPRETING CONTENT SERVICE REQUEST
909
DETERMINING WHO RECEIVES CONTENT SERVICE REQUEST
911
COMMUNICATING CONTENT SERVICE REQUEST
913
EXECUTING CONTENT SERVICE REQUEST
915

Fig. 9